

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,261	12/05/2003	Robert R. Rice	000352-804	1178
26294 TAROLLI SU	7590 11/15/2007	EXAMINER		
	NDHEIM, COVELL & T NTH STREET, SUITE 17	VAN ROY, TOD THOMAS		
CLEVEVLAN	D, OH 44114		ART UNIT PAPER NUMBER	
		·	2828	
				, DELIVERY MODE
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

7/	
R	

## Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)
1	10/729,261	RICE ET AL.
E	Examiner 1	Art Unit
Tod T. Van Roy		2828

	Tod T. Van Roy	2828				
The MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence ado	iress			
 THE REPLY FILED <u>18 October 2007</u> FAILS TO PLACE THIS <i>F</i>						
The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:						
a) The period for reply expires 3 months from the mailing date						
The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.						
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7	Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).					
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply orig r than three months after the mailing da	of the fee. The appropr inally set in the final Offi	riate extension fee ice action; or (2) as			
<ol> <li>The Notice of Appeal was filed on A brief in complifing the Notice of Appeal (37 CFR 41.37(a)), or any external a Notice of Appeal has been filed, any reply must be filed.</li> </ol>	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th	hs of the date of ne appeal. Since			
<u>AMENDMENTS</u>						
3. The proposed amendment(s) filed after a final rejection,			ecause			
(a) They raise new issues that would require further co		TE below);				
<ul> <li>(b) ☐ They raise the issue of new matter (see NOTE below)</li> <li>(c) ☐ They are not deemed to place the application in be</li> </ul>		ducina or simplifyina	the issues for			
appeal; and/or	tter term for appear by materially re	adding or online,g				
(d) They present additional claims without canceling a	corresponding number of finally rej	ected claims.				
NOTE: (See 37 CFR 1.116 and 41.33(a)).						
<ol> <li>The amendments are not in compliance with 37 CFR 1.1</li> </ol>	21. See attached Notice of Non-Co	mpliant Amendment	(PTOL-324).			
<ol><li>Applicant's reply has overcome the following rejection(s)</li></ol>						
<ol> <li>Newly proposed or amended claim(s) would be a non-allowable claim(s).</li> </ol>						
<ol> <li>For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows: Claim(s) allowed:  Obtain(s) abiasted the.</li> </ol>		Il be entered and an o	explanation of			
Claim(s) objected to: Claim(s) rejected:						
Claim(s) withdrawn from consideration:						
AFFIDAVIT OR OTHER EVIDENCE	•					
<ol> <li>The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e).</li> </ol>	d sufficient reasons why the affida	vit or other evidence i	s necessary and			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe y and was not earlier presented. S	al and/or appellant fa see 37 CFR 41.33(d)(	ils to provide a 1).			
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	on of the status of the claims after e	ntry is below or attac	hed.			
11.  The request for reconsideration has been considered by see attached.	ut does NOT place the application i	n condition for allowa	nce because:			
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)						
10. [ Ottlet						
		•				

Application/Control Number: 10/729,261

Art Unit: 2828

## DETAILED ACTION

## Response to Arguments

Applicant's arguments filed 10/18/2007 have been fully considered but they are not persuasive.

The following will comprise the Applicant's argument (*briefly*) and the Examiner's opinion. (*note: expansion of some of the Examiner's previous arguments in view of the newly filed Applicant's arguments, as the After Final arguments are largely unchanged, the Examiner's arguments are only slightly, if at all, modified)* 

Sasaoka teaches the fiber to have a Raman Gain coefficient of Gr/Aeff of .005, which would be uniform, and therefor not have a radially dependent value.

The Examiner agrees that Sasaoka teaches this value at [0026], but notes that this is the minimum value (.005 or more). If this is only a minimum value at each wavelength for a given area, it does not mean that the value is uniform across the diameter of the fiber. In addition, figure 1b is relied upon to further show the refractive index changes made via the GeO2 doping. This index profile is consistent with radial doping and provides additional evidence to the presence of the claimed Raman gain profile. Both the teaching of the value and the profile found in figure 1b work to demonstrate the necessary occurrence of the Raman gain profile.

The Sasaoka reference does not teach favoring lower order modes over higher order modes as the reference teaches a single mode fiber.

The Examiner agrees that Sasaoka teaches a single mode fiber, but motivates the use of a multimode fiber by incorporating Rice. Sasaoka's doping, plus Rice's

Application/Control Number: 10/729,261 Page 3

Art Unit: 2828

multimode fiber, gives the mode discrimination function. In addition, col.2 lines 48-57 of Rice teach the use of favor lower order modes to higher order modes in order to incorporate a multimode pumping source.

Sasaoka teaches radially doping for refractive index profile adjustment, but not for Raman gain profile adjustment.

The Examiner agrees that Sasaoka teaches the dopant profile (fig.1b) to be radially dependent and to be used to affect the refractive index. However, due to Sasaoka's use of Ge02, the dopant profile would also inherently adjust the Raman gain profile. The doping taught in fig.1b is radially dependent, and shows increased refractive index at the center point of the fiber. This indicates heavier doping at the center with radially decreasing amounts away from the center. The Raman profile would inherently follow this pattern as well.

Application/Control Number: 10/729,261

Art Unit: 2828

The Examiner also notes [0006], [0016] (lines 1-7), and fig.2 of the Applicant's specification that teaches doping using Ge02 in the same basic pattern of Sasaoka resulting in the Raman gain profile.

Claim 2 requires two different dopants.

The Examiner does not agree. Claim 2 states that a transparent oxide must be present which affects the refractive index (Sasaoka teaches Ge02, fig.1b). The claim further states a dopant must be present that affects the Raman gain profile. The claim does not make clear that the transparent oxides cannot perform both functions.

Therefor, Sasaoka's use of GeO2 fulfills the requirements of the claim.

The remainder of the presented arguments is largely directed to the points addressed above.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tod T. Van Roy whose telephone number is (571)272-8447. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2828

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**TVR** 

